

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2005/000329

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G02C3/02 G02C3/00 G02C11/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G02C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 089 145 A (KIEFER HOWARD H) 14 May 1963 (1963-05-14) column 2, line 1 - line 7; figure 1	1-18
X	US 3 150 380 A (PORCELLO RAPHAEL) 29 September 1964 (1964-09-29) column 1, line 50 - column 2, line 28; figure 1	1-18
X	US 4 549 793 A (YOON ET AL) 29 October 1985 (1985-10-29) column 2, line 19 - column 3, line 6; figures 1,2,4	1-18
X	US 4 768 231 A (SCHRACK ET AL) 6 September 1988 (1988-09-06) column 2, line 38 - line 67; figure 10	1-18
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the International filing date

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\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the International filing date but later than the priority date claimed

\*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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\*&amp;\* document member of the same patent family

Date of the actual completion of the international search

19 April 2005

Date of mailing of the international search report

06/05/2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 1 759 041 A (DAWES ROY A) 20 May 1930 (1930-05-20) page 1, line 33 - line 98; figures 1,2 -----	1-18
A	DE 199 34 958 A1 (LOEWEN, THOMAS) 1 February 2001 (2001-02-01) abstract column 4, line 29 - line 42 -----	13-15
A	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 09, 30 September 1997 (1997-09-30) & JP 09 127465 A (OKAMOTO TAKESHI), 16 May 1997 (1997-05-16) abstract; figure -----	1-18

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3089145	A	14-05-1963	NONE	
US 3150380	A	29-09-1964	NONE	
US 4549793	A	29-10-1985	NONE	
US 4768231	A	06-09-1988	NONE	
US 1759041	A	20-05-1930	NONE	
DE 19934958	A1	01-02-2001	NONE	
JP 09127465	A	16-05-1997	NONE	